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Fig. 1

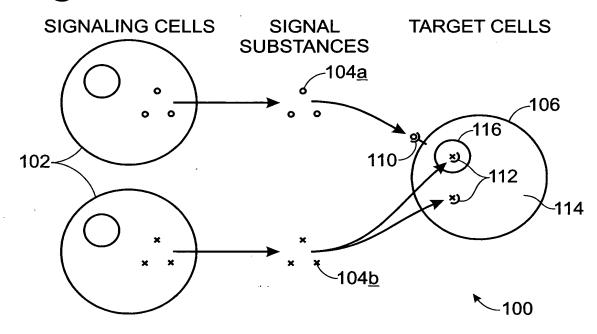


Fig. 2

G-PROTEIN-LINKED RECEPTOR MECHANISM

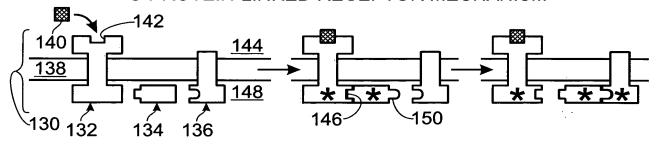


Fig. 3

ENZYME-LINKED RECEPTOR MECHANISM

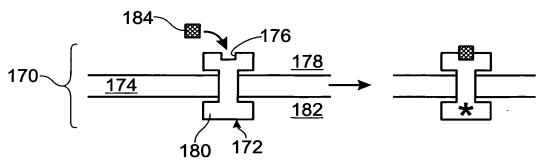
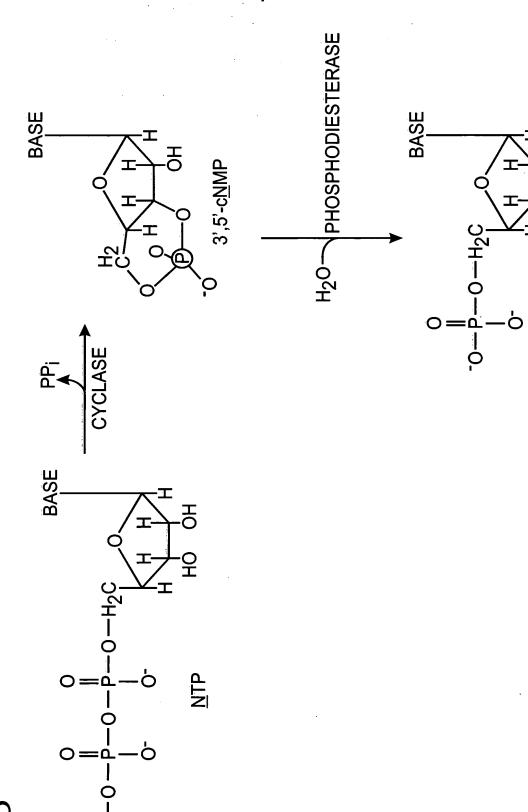


Fig. 4

2/10 (d) OFF SIGNAL IN SIGNAL ◆ OUT GTP-BINDING PATHWAY GDP INTRACELLULAR SIGNALING PATHWAYS Z O B **GDP**▲ GTP. **A**OFF A PHOSPHORYLATION PATHWAY SIGNAL OUT SIGNAL IN € Z O **ADP♣** ATP. ACTIVE PROTEIN INACTIVE PROTEIN

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NMP



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Fig. 6

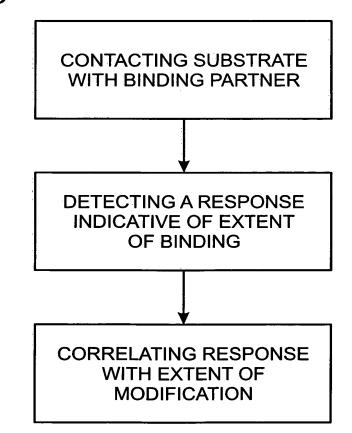
$$A \xrightarrow{\{M_{\text{EA*A}}\}} A^* \xrightarrow{\text{BP}} A^*:\text{BP}$$

$$\{M_{\text{EAA*}}\}$$

$$\{M_{\text{EAA*}}\}$$

$$\{M_{\text{EAA*}}\}$$

Fig. 7



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Fig. 8

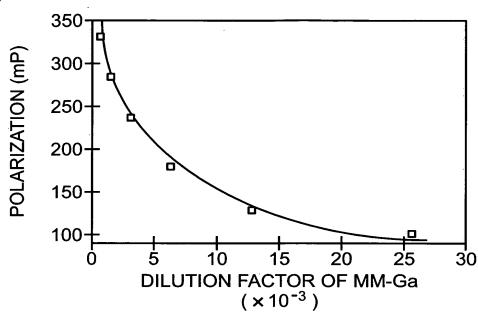


Fig. 9

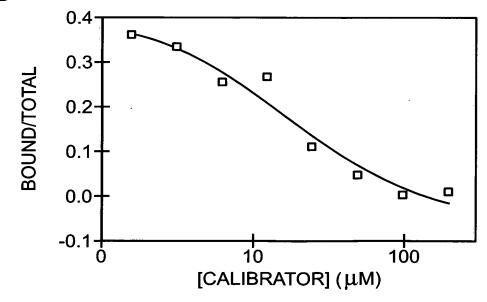


Fig. 10

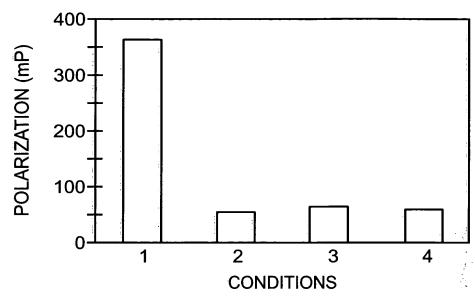
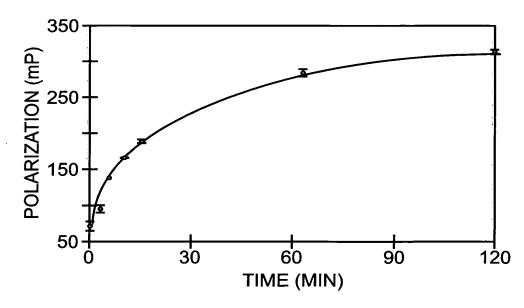


Fig. 11



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Fig. 12

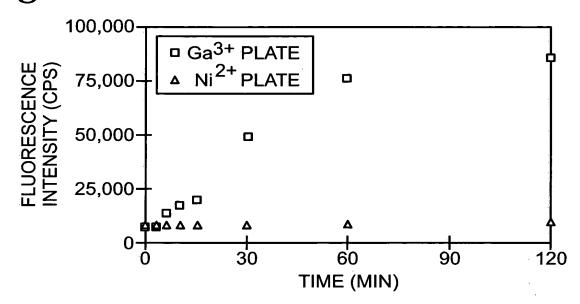
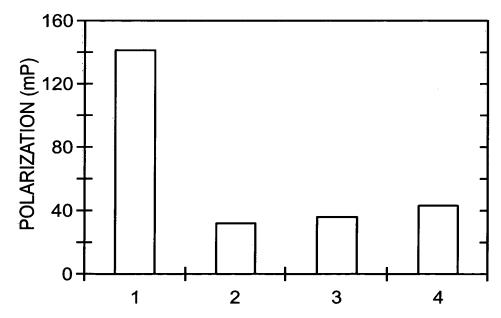


Fig. 13



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Fig. 14

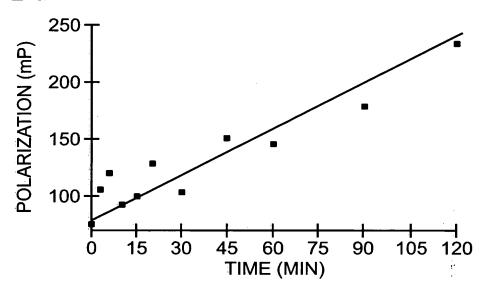
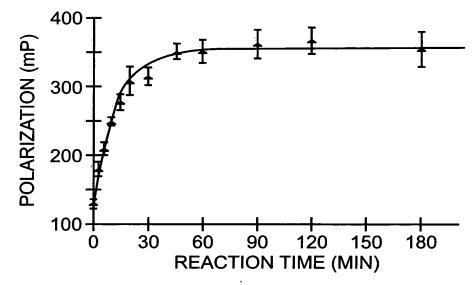


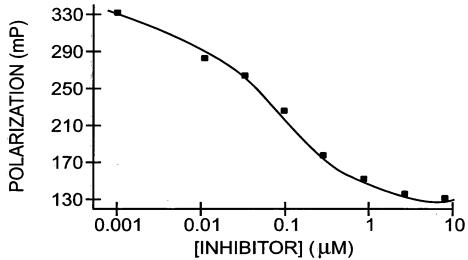
Fig. 15

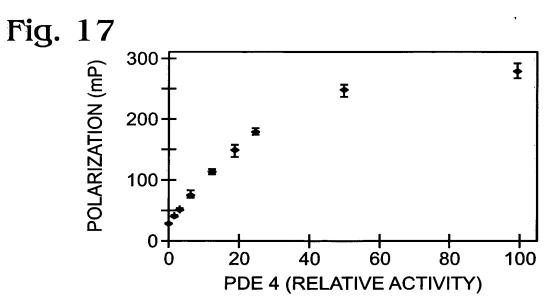


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Fig. 16

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Fig. 18

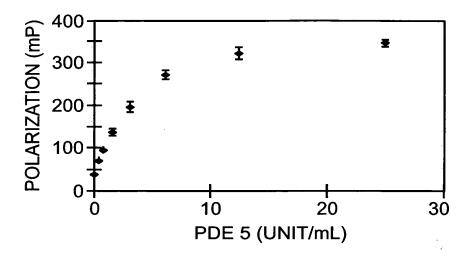


Fig. 19

